A-Max II

The Macintosh# emulator for your Amiga#

Update to Version 2.0

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1.0 INTRODUCTION

ReadySoft, Inc. is pleased to announce the release of Version 2.0 of its A-Max Macintosh emulator. As a registered user of A-Mex, you have been able to make use of the only Macintosh emulator for the Amigs. That emulation has last been made significantly more powerful.

Among its exciting new features A-Max II numbers the following:

- Support for Macintosh digitized sound;
- Support for the new display capabilities of Commodore's Enhanced Chip Set (ECS) and Workbench 2.0;
- Support for Memory Management Units on processor accelerators;
- Simplified AmigaDOS to A-Max File Transfer utilities;
- · Support for A-Max partitions on Amigs hard disks and;
- Support for external SCSI input, storage and output devices.

This document includes details on all of these additions. It is meant to supplement your existing A-Max menual, not replace it. Be sure to read this entire update, as well as the ReadMe file on your distribution disk before attempting to use the new software.

The following outline describes the arrangement of this update:

Introduction: The section you are now reading.

- A-Max Install: Describes the ReadySoft supplied utility for automatically copying A-Max files to your hard disk.
- Preferences: Describes changes to the A-Max Preferences section of your version 1.0 manual. These changes include details about the new soft-ware configuration features.
- Sound and Real Time Clock: Briefly notes these two enhancements to the A-Max II system.
- Using A-Max with Hard Drives: Describes how to set up Amigs hard drive partitions for use as A-MaxiMacintosh storage devices. Also, how to access external SCSI devices through the Amigs controller.
- Software Competibility: Updates existing documentation on competibility issues and strategies for optimizing your Macintosh emulation.
- File Transfer Utilities: Describes the new AmgaDOS to A-Max file transfer utility.

2.0 A-MAX INSTALL

As before, the AmigaDOS format A-Max Startup program and associated utilities for transferring files can be installed on your hard drive. The A-Max Startup disk is act copy-prolected and includes an automatic herd disk installation program called A-Max Install. Simply click on the A-Max Install con and you will be prompted to supply drive and directory names as destinations to receive the necessary A-Max lies.

You may choose to manually copy the files over to your hard disk, nearly averything is contained within the A-Max drawer on the program disk. However, you should be sure to read the rest of this manual carefully — particularly the sections about using A-Max with partitions on your hard disk — to make sure you copy all of the necessary files.

Reminder to Amige 1000 pwiners: If you wish to use your Kickstert RAM with A-Max, you must best from a verbatim copy of your A-Max II release disk. This disk has a non-standard boot block that enables A-Max to take over the Kickstert RAM. Installing the A-Max II system on your hard disk will not allow the Kickstert RAM to be recovered.

3.0 PREFERENCES CHANGES

3.1 Display Options

A-Max II allows for the definition of a display or video mode that is different from the number of columns and rows that constitute a screen. In this way it is possible to create a workspace larger than your monitor's field of view. The Screen Modes setting will define the extent of your actual workspace, the Macintosh's Desktop. The Video Modes setting tells your Amigs hardware how to present the screen visually. In most cases, you will want to match the screen and video mode settings, but you may choose (if, for instance, excessive ficker is a problem) to set these variables independently.

3.2 Screen Modes

Clicking on the Screen Modes button cycles through the following procession of screen possibilities (sizes are in pixels or screen dots):

- (1) 512 x 342;
- (2) 540 x 400 (NTSC) 840 x 512 (PAL);

- (3) 672 x 460;
- (4) From Workbench

The first size is the standard Mocintosh screen size. The second is the standard Amiga Hi-res screen size (units equipped for European PAL video standards can display 640 x 512 pixels. The U.S. standard NTSC, provides for 400 lines). The third setting is the maximum Hi-res overesen actiovable by either NTSC or PAL systems.

The fourth setting uses the size selected from Workbench and recorded in your AmigaDOS preferences (iie. If you are using Workbench version 2.0 you can set these dimensions directly. If your Workbench version is 1.2 or darlier, you can use a program such as MoreRows to edjust the number of rows. In any case, the object, generally, is to maximize the number of displayable rows, thereby increasing your active workspace.

When using Workberch version 1.3 and surfier, the line count (number of rows) is always automatically doubled by enabling the Interlace mode (i.e., The standard 200 line medium-resolution Workbetch becomes 400 lines high) So, if you use MicroRows to select 230 lines, enabling interlace will produce a 460 line screen). It is important to note that the minimum number of rows required by A-Max II is 342 (anything less will be forced to 342).

2.3 Video Modes

Smiller to the Screen Modes button, the Videa Modes button cycles through the following range of choices:

- (1) Hi-res:
- (2) Hi-res Interlaced:
- (3) ECS Productivity;
- (4) ECS Productivity Interloced;
- (5) A2024/Moniterm.

HI-rea and Hi-rea Intertaced refer to standard Amiga display modes. The ECS settings support a variety of new display modes provided by the combination of Commodore's Enhanced Chip Set and Workbench version 2.0. A2024/Moniterm refers to a high resolution (1008 a 800) display achievable with special Commodore or third-party hardware.

If the number of rows specified by Screen Modes is greater than the number of fows selected in Video Modes, the screen will scroll whenever the mouse moves off the top or bottom of the displayed field. This method is consistent with the function found in Workbench version 2.0. Users tamiliar with A-Max ReadySoft, Inc.

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version 1.0 will note that the other screen scrolling methods used by that version have been disabled.

3.4 Screen Positioning

For all screen and video modes, except the Enhanced Chip Set (ECS) settings.

A Max II centure the screen by referring to the AmigaDOS preferences life.

If you need to center the screen on your monitor while using the ECS mode settings, you will have to separately adjust the X and Y coordinates. Clicking on the arrow above the coordinate reduces its value, while clicking on the arrow below the coordinate increases it.

3.5 Memory Options

No \$000000 will use only memory located below address \$0,00000 (this option will disable the second 512% of memory in A2000s and 1Mb A500s, making A-Max II more competible with some applications). This functions assembly the same as the previous version, except that it now slows you to also specify a desired memory size using the User gadget. As before, any \$000000 memory present in your system will still be included in the A-Max RAM disk.

User slows you to select the amount of memory to be used during Mac emulation. It now, however, displays both the amount of memory you dedicate to the Macintosh system and "RAM Disk = "followed by the amount of RAM that will be used as a RAM sisk. The sum of these two figures is never larger than the total amount of memory in your machine and as you increase the size of memory systable to the Mac system, the RAM sisk figure will decrease

MMU — If you have a 68030 societator board with a Mamory Management Unix (MMU) or a 68030, which has a built-in MMU, you can select this option from the Preferences screen. When this teature is enabled, A-Max II will allow the MMU to receap your Amiga's memory into one contiguous block (the way the Macintosh likes it). Memory is mapped so that hall of any 32-bit (non-CHIP) RAM is placed at the beginning of the system "leap," followed by 16 bit Fast RAM, then CHIP RAM and, linely, the remeinder of the 32-bit memory. With this configuration, all the Macintosh System code and most applications will be able to run in the fastiast memory your system has to offer. We have, in fact, timed the speed increase at up to five times the resmal execution time. Of course, this option is only available to those Amigas equipped with an MMU.

4.0 SOUND

A-Max II now supports most digitized sounds. You don't have to do anything to enable this feature. The sound support can be tested by changing the system been in the control panel. This option can be shut off by setting the volume to zero in the Control Panel. If applications go directly to the hardware to produce sounds, some may produce undestrable results while others will work line.

5.0 REAL TIME CLOCK

A-Miss version 1,0 supported only A500 and A2000 motherboard clocks. A-Max II gets its time signal from the System at startup, then uses the Amiga's internet tening carouttry to keep an accurate count. It, therefore, will support any existing third party clock. Sellore starting A-Max, Verify that your system's date and time are accurate by using the AmigaDOS Date command.

6.0 USING A-MAX II WITH A HARD DRIVE

A Max II will allow you to access hard disk drives in two ways: As standalone Macintoelt formatted SCSI drives and as A-Max formatted pertitions on existing Artigo hard drives. This provides the maximum of flexibility for mass asorage options as well as providing support for other Macintosh SCSI devices (such as laser printers and scanners).

Users who can afford them may want to keep their Macintosh files and programs on separate SCSI drives that can be switched oil while running Amiga-DOS. Users with smaller budgets (or desictops) can optimize their resources by splining their existing hard drives into AmigaDOS and A-Mex partitions. Either way, the mechanism that lets A-Max II find and talk to these devices is the controller card.

Hard disk controller cards on the Arriga are supported by A-Max II through the use of software drivers that are written specifically for given cards. A different driver is required for each different controller. Some of these are supplied on the A-Max program disk in the DEVS: directory. ReadySoft has made an effort to provide the necessary technical details to the more popular hard drive controller manufacturers but due to unfortunate timing or a lack of interest on the parts of some manufacturers, not all hard drives are supported at this time. This doesn't mean that these controller cards can't or won't be supported in the future. If a driver for your card lan't included on the A-Max disk, contact your hard drive manufacturer and they may be able to send you a driver if they have developed one subsequent to the release of A-Max II.

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6.1 AMHD - the A-Max Hard Disk Driver

To check if any given controller is supported, you must first determine the name of the device driver used by the hard drive card. This can be found in the DEVS:Mountlist file for any partition of any hard drive attached to the controller. As you scan down the entries in the device mountlet specification, you will see "Device - " followed by the name of the eoftware driver (example: The GVP SCSI card uses SCSIDEV DEVICE, so its mountlist would read "Device > SCSIDEV.DEVICE). For A-Map II to support a card, there must exist a driver in the DEVS, directory with the same prefer and a sulfix of AMHD (in our exam-

If your hard drive controller uses Rigid Disk Format (all partitioning information is assed on the first blocks of the hard drive, saed) then you won't have a mounties to consult. Try checking the documentation that come with your pontroller, of refer to the following list:

pie, the GVP SCSI card would require a driver called SCSIDEV.AMHD).

Some common controllers' device names are as follows:

A2090	hddisk.davigs	hodisk winho
A2091/A590	acsidevice	acal.ambd
GVP	scsidev,device	scaldev.amhd

In addition, be sure to check the ReadMe file on your A-Max It distribution diskette for a listing of controllers and their devices that may have been added since this manual was prepared.

Once you have ascertained which .AMHD device driver is required, you should copy if from the DEVS: directory of the A-Max disk to the DEVS; directory on your hard drive. If you use the A-Max install program to automatically configure your system, it will copy all A-Max II hard disk drivers to the DEVS; directory on the hard drive.

Before A Max II will recognize your hard drive, it will have to be re-partitioned and formatied. A-Max II will allow up to 8 A-Max partitions spread across up to If hard drives so long as they are all connected to the same controller (any number of AmigaDOS partitions may also exists on these hard drives). Any number of hard drive controllers may be installed in your Amiga and used by AmigaDOS but only one can be used by A-Max II.

6.2 Partitioning the Hard Drive

When you are partitioning your drive(s), most hard disk swtup utilities will ask you to name the partitions as you create them. To denote a partition as an A-

Max partition, the name you give it must begin with AMAX (no speces, no hyphen). Typically you might want to name your A Max partitions AMAXII. AMAX2, etc., but you could also name them AMAXWork, AMAXBackup or anything also that begins with AMAX (note: the name you give it is only the designator used by your Amiga - you can call it enything you like when you initialize the partition under A-Misc II).

If your partitioning authoring doesn't allow you to name your partitions (it may automatically name them 0H2; DH3: etc.), you will have to end the mounted that the partitioning software creates (in the DEVS: directory). You will have to find the detault names that the partitioning software created and replace them with names begining with AMAX (as discussed above). Again, with Rigid Diss Format you won't have a mountlist so the only way to name your partitions is with the manufacturer's setup software liss?

Note that you cannot use the AmigaDOS Assign command (i.e.: Assign AMAX1: DHZ:); the name must equally be recorded in the mountiest.

Once all partitions have been appropriately named, you must visure that they are mounted before you run A-Max II. Some hard drive controllers will sutomatically mount all partitions, in which case, you won't have to do anything. Other controllers will only mount the boot partition and leave it to you to mount any other partitions. If this is the case, you should add the appropriate mount commands to your startup sequence (i.e.; Mount AMAX1 areturns, Mount AMAX2: «returno, etc.).

6.3 Initializing the A-Max Partitions

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Now, you can run A-Max II, When the Mac system takes over, if will find the new A-Max partitions on your hard disk, but it will be unable to recognize them as anything useful. A requester displaying an A-Max hard drive loon will appear, stating: "This is not a Macintosh disk. Do you want to initialize." You must click on initialize. It will then report: "This process will erase all information on this disk." You must click on Erase. You will then be prompted for a name. Here is your chance to give the partition whatever name you like; it's the name you will see attached to the drive icon on your Macintosh decision. After supplying a name for the drive, the requester will then say "Creating directory." This could take several minutes, depending on the size of the partition. When complete, an icon representing the drive will appear on the decktop

If you have created more than one A-Max partition, another requester will oppear and the process will repeat itself until all partitions have been initialized.

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lar card (see above discussion).

vice in which it is found.

If you are not asked to initialize the partition then either:

- (1) The appropriate A-Max driver is not present in the DEVS: directory;
- (2) the names you have given don't begin with AMAX;
- (3) The partitions weren't recurred before running A-Max II.

6.4 Making A-Max Partitions Bootshie

After the first time the partitions have been initialized, they will be usable by A-Max II any time you run the program. Once set up, any one of the partitions can be made bootable by copying a System folder (containing both System and Finder Illes) into the partition. If more than one partition contains a System tolder, A-Max II may boot from any one of them (but it will always boot from the same one). Experience that demonstrated that having more than one System

same one). Experience the demonstrated that having more than one Bystem lolder can cause some programs to behave arratically. Users are cautioned against this practice. However, If you must have more than one copy of a System folder, any one of them can be made the "real" System by selecting to icon and following the Set Starrup procedure detailed in the Macintosh system soft ware manuals.

6.5 Technical description of the boot procedure

anly control A-Max partitions on Amiga hard drives.

er; which installs the partitions into the filing system.

When A-Max II is run, it limit opens all devices (such as the Mac SCSI manager, the floopy manager, RAM disk manager and the A-Max hard drive manager). Note that there is a difference between the Mac SCSI manager and the A-Max hard drive manager. The Mac SCSI manager will control hard drives that have been formatted on a Macintosh and other SCSI peopherals such as scenners and the LagerWriter SC while the A-Max hard drive manager will

When the Mac system opens the A-Max hard drive manager, A-Max II installs all partitions beginning with the name AMAX but does nothing size (i.e.: if doesn't try to boot from any partition). When the Mac system opens the Mac SCSI manager, it reads block 0 from any SCSI devices (i.e.: each hard drive) and if it finds that a device was formalized on a Macintosh, it will load any necessary drivers from the device itself, not up the partition map and open the drive

Once all devices have been opened, the Mac system scans through the devices in the following order in search of a System and Finder:

- (1) Floopies:
- (2) PAM disk (# F1 was pressed);
- (3) A-Max hard drive partitions;
- (4) Mac SCSI found drive partitions.

5.6 Using SCSI Devices without A-Max Partitions

A potential problem exists if you intend to use a Macintosh formatted drive, SCSI scanner or LaserWinter SC attached to your control or card's SCSI port, but you don't have any A-Max partitions as other send drives attached to the eard. Without such partitions, A-Max if will not know which driver to use to access the hard drive card. To get around hits, you must create a during will by your control.

When a System and Finder are encountered, the system is booted from the de-

To do this, copy the mounties information for any AmigaDOS device that uses the controller card in question. Then, change the designator (example: DH2:) to AMAX-constring: The only information that matters for this dummy partition (besides the fact that is name must begin with AMAX) is the name of the driver in the "Device = " line in the inpunties. All the other entries can be set to zero (0). As long as this dummy partition is mounted before running A-Max II, A-Max will then know how to talk to your hard drive controller card and will allow the Mac SOSI manager to function.

Sample Dummy Mountilat Entry: (NOT necessarily valid for your drivel)

AMAXCaru: Device - SCSIDEV device
Unit = 0
Flags = 0
surface = 0
BlocksPerTrack = 0
Reserved = 0
Interleave = 0
LowCyl = 0; HighCyl = 0
Buffers = 0
Buffers = 0

6.7 A-Max Partitions Under AmigaDOS

Since you set up and name the A-Max partitions on your hard disk using the manufacturer's supplied utilities under the AmigaDOS operating system, these partitions are fully recurrable and accentable when running in the normal AmigaDOS environment. As long as no attempt is made, under AmigaDOS, to use the A-Max partitions, your hard drives will behave normally. Since they are in-tiefized as Maximosh drives under A-Max II, however, any strengt to access

these partitions from AmigaDOS will produce a "Not a DOS disk!" arror massage. It is best, therefore, only to mount the A-Max partitions when you intend to not A-Max II.

WARNING: It is possible to issue an AmigaDOS Format command that will reinstalize your A-Max partition and make it usable by the Amiga filling system. To do this would completely erase your A-Max format and any programs or thats you had stored there.

7.0 SOFTWARE COMPATIBILITY

7.1 Compatibility with Macintosh Applications

As before, compatibility problems arise when software take directly to the hardware, bypassing the operating system. This is most evident in Midi softwere, copy-protected software, games and programs designed to use Mac hardware add-ons. Unfortunately there is nothing that can be done to slow these types of programs to run with A-Max II.

ReadySoft is working on a hardware solution to address these issues. It will be a plug-in board for the A2000 and higher machines. A-Max If Plus will offer support for MIDI hardware and software as well as a fully functional AppleTalk port.

Some applications still will not function with expansion memory present at all. The solution for such applications is to stop A-Max II from using your expansion memory by selecting the No Expansion option. Of course, the program must then be capable of running in 512k of space. If you find that a particular application will not run under A-Max II, you should always try reducing the memory size before giving up on that application.

7.2 What to Do If an Application Won't Run

Some Macritosh applications (particularly older ones) will refuse to run unless your A-Max II system is configured exactly like a standard Mac. If you an-counter such a program, try the following:

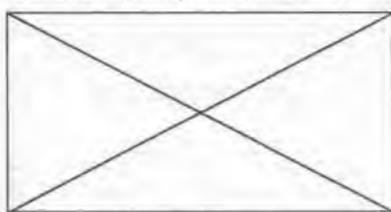
- 1) Set the screen size to 512 x 342 (standard Mac screen size)
- 2) Use the MMU setting (if you have a Memory Management Unit chip)
- 3) Use the No \$C00000 memory setting
- 4) Use the He Expension memory setting
- 5) Set the sound valume to zero (0) in the control panel Dask Accessory

6.0 FILE TRANSFER UTILITIES/AMIGADOS TO A-MAX II

8.1 File Transfer Softwere

A-Max II includes a new utility for transferring files back and forth between AmigeDOS and A-Max or Macintosh formut disks. This program (File Transfer 2) replaces the File Transfer program found on the earlier A-Max release diskutes. File Transfer 2 is included on the Utilities disk (in the A-Max formal half). In addition to simplifying the transfer process by eliminating the use of an intermediate disk format, File Transfer 2 also provides functions to conventifierent types of files during the transfer. File Transfer 2 now fully supports MacBinary file transfers.

File Tremter 2 works under A-Max II and produces the only instance when you can legally insert an AmigaDOS termst disk. The only drive that can receive this disk is the internal or first drive (DFO;). In order to use File Transfer 2, you will need at least one other svalishle disk drive (to hold the A-Max format disk. If you have an BOOk Apple drive, you can use a real Maxintoon format disk. If you don't have an Apple drive, but do have a second Amiga drive, you can use an A-Max format disk in this drive. If your system contains only one disk drive, you will have to install and inhistize the A-Max FIAM disk (by pressing F1) and use that as your second drive. Of course, if you are running your A-Max system with hard disk drives, these may also be used with File Transfer 2.



The File Transfer 2 selection screen.

Double click the File Transfer 2 program icon to run it. Once the File Transfer 2 software is running, insurt an AmigsDOS format disk into DFO: If you are transferring data to A-Max II, the disk should already contain the files you wish to transfer; if you are transferring data from A-Max II to the Amigs, you should

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be sure the disk has enough free space to hold the file(s).

WARNING: If you should insert the AmigaDOS disk before running File Transter 2, the Mac system will report that the disk a not Macintosh and ask if you want to initialize or special. Initializing it will destroy the AmigaDOS formatting and make file transfer impossible. Eject the disk and be sure to start the File Transfer 2 program.

The File Transfer 2 program monitors any disk changes in DFC and will display a directory of any AmigaDOS disk. You cannot proceed with the transfer until a valid AmigaDOS disk is in the internal drive.

When the program is running and a valid AmigaDOS disk has been accepted in the internal drive, you are ready to transfer files. Before selecting a file, however, crisioss one of the conversion types arrayed along the right side of the wholey.

Options include:

- (1) Monn;
- (2) Text: (3) MacPaint -> IFF;
- (4) MacBinary
- (5) PostScript

None copies the file without any translation. Text converts Amige line feeds to Mac carriage interns and vice verse. MacPaint — IFF converts single bit plane images between the two formats. MacBleary is the most common format for Macintosh execusables and a new most programs are stored on Bulletin Board Systems. Macintosh files downloaded from BBSs can be transferred using the MacBleary setting. Finally, the PostScript setting converts Post-script files.

There are also additional geologies for selecting particular elements of a lile or providing additional information about the file that will make it more appealing to the Mac. These tools have to do specifically with the Macintosh's file system and are included for advanced users who need to port their work between both AmigaDOS and Macintosh environments. Users interested in simply transferring an accessorial text file back and torth need not address these gadgets at all. They will default to appropriate values.

Fork selection — Macritosh liles are composed of two halves, cuited forks. Every file has both a Resource and a Date Fork. Programs will usually have their executable code in the resource fork and changeable elements (like lants, dialog boxes, and windows) in the data fork. Among other things, this makes it easy to translate the program into other languages. French or Russian menus can be loaded into the data fork without having to change the actual program code.

Many files will have contents in the data fork but name in the resource fork (or vice versa). The Fork Selection gadget allows you to extract the contents of either or both lones of a Macintosh life. When copying from the Amiga, you may wish to specify that your data be copied to one or the other forks in the destination Mac Sie.

Pile Type and File Creator —Every Macintosh file also has a File Type and a File Creator data field. This is information that functions besically the same way as AmigaDOS's into files. The file type is a four character notation that specifies what kind of information it contains: TEXT, APPL, PICT, etc. The file creator is a lour character abbreviation of the name of the program that created it: WRIT, FPNT, etc.

To enter a File Type or File Creator, click in the appropriate string gadget and type the identifier. Again, if you don't know what abbreviations to use, or do not care to specify any, the default values will do.

8.1.1 Copying AmigsDO5->Mac

Use the Parent and Root gadgets or double-click on directory names to move through directories. Select the file you wish to transfer by scraling through the list of filenames and then single-clicking on the name (it will be highlighted). The current path is displayed above the directory list. Click on From Amiga-DOS.

DOS.

A standard Mac file requester will appear. Select the drive and, optionally, any subdirectories to which you want the destination file copied. If you choose, you may also give the destination file a new name. The file will inherit the source

life's name if you don't change it. Click on Seve to begin the transfer.

8.1.2 Copying Mac-AmigaDOS

Select a destination directory on the AmigaDOS disk in DF0: to receive the Mac file (a file name can be supplied but it won't have any effect — any the directory is used). Click on To AmigaDOS.

A standard Mac file requester appears. Select the file that you wish to copy. Click on Open. The file is then transferred to the AmigaDOS disk with the same file name. If a file by that name already exists, you will be prompted to Cancel the operation or Overwrite the file.